



[illegible]
$$\leq \frac{1}{2} \sum_{i=1}^n \|\mathbf{z}_i\|_2^2 + \frac{1}{2} \sum_{i=1}^n \|\mathbf{z}_i\|_2^2$$
[illegible][illegible]







[illegible]

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VERSION 1 01:24:2672  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 Arabidopsis thaliana  
 Pukrajat, V. et al. 1997. Arabidopsis thaliana: Tracheophyta: Eucotyledon:  
 Magnoliopsida: eudicotyledons: core eudicots: rosidae: eurosid 1:  
 brassicales: brassicaceae: Arabidopsis.  
 REFERENCE  
 AUTHORS  
 1 (bases 1 to 110514)  
 Osipov, R. L., Vysotskaya, V. S., Toriumi, M., Yu, D., O'Brien, A.,  
 Hueller, E., Conway, A. B., Conway, A. R., Dewar, K., Fong, J. R.,  
 Korte, J., Li, Y., Shieh, P., Sun, H., Davis, R. W., Jock, J. R.,  
 Fournier, N. A., and Theologis, A.  
 The sequence of the F7G19 from Arabidopsis thaliana chromosome 1  
 unpublished (1997)  
 2 (bases 1 to 110514)  
 Theologis, A.  
 DIRECT SUBMISSION  
 Submitted (20-08-1997) Plant Gene Expression Center, 800 Buchanan  
 Street, Albany, CA 94710, USA  
 REFERENCE  
 AUTHORS  
 4 (bases 1 to 110514)  
 Theologis, A.  
 DIRECT SUBMISSION  
 Submitted (17-08-1997) Plant Gene Expression Center, 800 Buchanan  
 Street, Albany, CA 94710, USA  
 REFERENCE  
 AUTHORS  
 4 (bases 1 to 110514)  
 Theologis, A.  
 DIRECT SUBMISSION  
 Submitted (27-06-1997) Plant Gene Expression Center, 800 Buchanan  
 Street, Albany, CA 94710, USA  
 REFERENCE  
 AUTHORS  
 5 (bases 1 to 110514)  
 Theologis, A.  
 DIRECT SUBMISSION  
 Submitted (03-MAR-1997) Plant Gene Expression Center, 800 Buchanan  
 Street, Albany, CA 94710, USA  
 REFERENCE  
 AUTHORS  
 5 (bases 1 to 110514)  
 Theologis, A.  
 DIRECT SUBMISSION  
 Submitted (02-MAR-1997) Plant Gene Expression Center, 800 Buchanan  
 Street, Albany, CA 94710, USA  
 REFERENCE  
 AUTHORS  
 7 (bases 1 to 110514)  
 Theologis, A.  
 DIRECT SUBMISSION  
 Submitted (16-AUG-1997) Plant Gene Expression Center, 800 Buchanan  
 Street, Albany, CA 94710, USA  
 REFERENCE  
 AUTHORS  
 8 (bases 1 to 110514)  
 Theologis, A.  
 DIRECT SUBMISSION  
 Submitted (26-AUG-1997) Plant Gene Expression Center, 800 Buchanan  
 Street, Albany, CA 94710, USA  
 REFERENCE  
 AUTHORS  
 9 (bases 1 to 110514)  
 Theologis, A.  
 DIRECT SUBMISSION  
 Submitted (16-SEP-1997) Plant Gene Expression Center, 800 Buchanan  
 Street, Albany, CA 94710, USA  
 COMMENT  
 On Aug 26, 1997 this sequence version replaced at1194198.  
 The sequence of F7G19 from Arabidopsis thaliana chromosome 1.  
 Location/Qualifiers  
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 /contig="Columbig"  
 /db\_xref="taxon:3702"  
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 2556..2665,2740..2850)  
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 /note "Similar to ATP-dependent Clp protease (db1090915).  
 EST db1065461 comes from this gene."  
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 QVERSVAVNERRPTPEPDLPSMLIDRIVYICPPIIDPDIPTQIVAVETLVALLR  
 YLMDLDRKEPLVYINSTGTIDGIVHIVYMAAGAGAGALSLGATLAKRQIMRRA  
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 /note="codon reoptimized: 100% G10"  
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 AQAAPNAPPKIAPQIVQMPIDGAKIVAPALAKRKSIVLLEIDHIAIKRPF  
 DRSQSGPQVQRMELINQIDGSSIRIKVATATNADIDNALMKSRLDKLKE  
 PPLTEAKRGLDHSKRNNAVNPTELRKSTDDIRGQIKAVYFANMLARIA  
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 7619..7721,7885..7929,8032..8127,8253..8649,8799..9149)  
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 (db1X93301)."  
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 TLEWPTQYKRIVEEMGVV VAKSALITKRMALILPVNTLTWLRKSL  
 IGSVAPDINIRKVALGLAVTGLHETLHATRELEHAKVETTRPFTQDQ  
 REENQMPKRTQGWETGVNVLAVAVLASSPFRPANIIRSLKALGPNANWS  
 HILPVLYVLTIVHGYVYLSRWYHKTIMVLAAPVLLVAFERILRAFGAAVAV  
 LKVAVPNNVLSVMSKPKERTSGQVLYINGSLVPLQMPSTLSASDQYASVH  
 LKLDQMSQKSLASVGLQPSLSASLITAGVARTPRDLIRNVATKRAFYVW  
 YRNTVDLVAGLQATITLSTLREYALRERHETLQETRLQIRNVATKRAFYVW  
 TRQGSLLPFSVMEVAVYDSQSLTHRTTSYHSGAKSALIMQSLHAKRS  
 IDTVSKPRVKTTHARPNNKSVPRIVAVHVRQVYVQDITLQSLKPLAVSQR  
 LITKPEPRKPN"  
 complement (9310..10430)  
 /gene="F7G19.4"  
 /join(9310..9492,9582..9640,9745..9904,  
 10061..10430)  
 /gene="F7G19.4"  
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 KALNSVLISGRILINVSLSFASRRLKRSSTGAPALRGLKFLAKNDAVQVQMPV  
 MRLDLAVGKSLKSKSGHCTGVMSSEVNTLPAIVPPEITSSSTKTHLEPRK  
 QLTGNSFDRDLQLEFDMDKRLNIRLIGVENVLIALSASANKSLKENVYVALL  
 MEEDRDNGYLEVRCLNSGYTLTSLKTLINLW"  
 11553..13929  
 /gene="F7G19.5"  
 /join(11553..11812,11903..12117,12289..13011,13085..13344,  
 13419..13929)  
 /gene="F7G19.5"







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